

IO15868
-001

308 Building/2A
January 21, 2005



Document Processing Desk - 6(a)(2)
Office of Pesticide Programs (7504C)
U.S. Environmental Protection Agency
Ariel Rios Building
1200 Pennsylvania Avenue, N.W.
Washington, D.C. 20460-0001

RE: FIFRA § 6(a)(2) Report
Vikane* Gas Fumigant
EPA Registration Number: 62719-004
Active Ingredient: Sulfuryl Fluoride
CAS Registry Number: 002699-79-8
DERBI: 152512
State: FL
Severity Category: H-A

Update IO15666-001

Dow AgroSciences submits the following information in response to its understanding of the U.S. Environmental Protection Agency's interpretation of FIFRA § 6(a)(2). However, Dow AgroSciences has not concluded that this information regards an "unreasonable adverse effect on the environment" or that it is reportable under FIFRA § 6(a)(2).

On November 16, 2004, Dow AgroSciences reported to the Agency a human death in West Palm Beach, Florida allegedly involving Vikane* Gas Fumigant. Since that time, we have received a copy of the Medical Examiner's report indicating the cause of death was acute bronchopneumonia due to methadone toxicity. Attached is a copy of this report for your records.

If you wish to discuss this matter further, please call me.

Regards,

A handwritten signature in black ink, appearing to read "Tami Jones-Jefferson".

Tami Jones-Jefferson
Product Stewardship Specialist
(317) 337-3574

Prepared by:

A handwritten signature in black ink, appearing to read "Kristi Speheger".

Kristi Speheger
Product Stewardship Administrator
(317) 337-4577

Attachment

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Voluntary Industry Reporting Form for 6(a)(2) Adverse Effects Incident Information

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area. Page 1 of 1

Row 1 Administrative Data	Reporter Name Dan Naber		Submission date.	Contact person (if different than reporter)	Internal ID 867		
	Address Revenge Pest Control West Palm Beach; Florida			Address			
	Phone # [REDACTED]			Phone #			
	Incident Status: Update	Location and date of incident West Palm Beach; Florida 11/02/2004		Date registrant became aware of incident. 11/03/2004	Was incident part of larger study? No		
Row 2 Pesticide(s) Involved	EPA Registration # (Product 1) 62719-4		EPA Registration # (Product 2)		EPA Registration # (Product 3)		
	A.I. (s)		A.I. (s)		A.I. (s)		
	Product 1 name Vikane Gas Fumigant		Product 2 Name		Product 3 Name		
	Exposed to concentrate prior to dilution? Yes		Exposed to concentrate prior to dilution?		Exposed to concentrate prior to dilution?		
	Formulation:		Formulation:		Formulation:		
Row 3 Incident Circumstances	Evidence label directions were not followed? Yes Intentional misuse? Yes	Incident site: (examples include home, yard, school, industrial, nursery/greenhouse, surface water, commercial turf, building/office, forest/ woods, agricultural (specify crop) right-of-way (rail, utility, highway)). See Incident Description Notes			Situation (act of using product): (examples include mixing/loading, reentry, application, transportation, repair/ maintenance of application equipment, manufacturing/ formulating). See Incident Description Notes		
	Applicator certified PCO? UNK						
	How exposed: (examples include direct contact with treated surface, ingestion, spill, drift, runoff) See Incident Description Notes						

14

Personal privacy

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Brief description of incident circumstances.

- Wed Nov 3; 2004 @ 17:21 By 102:Dean Filandrinos ---Caller owns a PCO company; Revenge Pest Control. He just received a call from police who stated a man just walked out of a tented residence being treated with Vikane and has died on the front lawn. He has no other information; he wants to report it at this time. He is on his way to the residence and will be meeting with the police officer on the scene. I asked that he call back with info as soon as he is made aware. Notified Shannon Bass of incident. Will contact her again when I received more info. Use cell phone to contact Shannon [REDACTED]
- Wed Nov 3; 2004 @ 19:00 By 102:Dean Filandrinos ---I called back David to receive an update. He states the dwelling involved is a home with an efficiency apartment attached. Both dwellings were tented on Monday and Vikane was applied Tues. Tuesday evening the 19 yo male resident of the efficiency apartment broke into his apartment to retrieve his wallet. It is unknown how long he was in the dwelling. He then exited and returned to a friend's home. This morning at an unknown time he was found unresponsive at the friend's home. The other residents of the dwelling state they contacted poison control who recommended 'he sleep it off'. At some unknown time later the police were contacted and the gentleman was found dead. He does have a history of abuse of morphine and oxycontin. No readings have yet been taken on the dwelling but it has been ventilated. David supplied us with the detective on the case: John Cogburn ID# 4810 [REDACTED] Case # 04-12-9992I told David to contact us if any new info received. He will speak with his rep (Rudy) in the am. Shannon Bass has been informed of the case. She directed us to contact her via her cell phone of any further developments. She can be notified in am of any new information unless a media contact is made tonight or some other major bit of information is discovered
- Thu Nov 4; 2004 @ 10:36 By 102:Dean Filandrinos ---Addendum to previous note: David stated that the police detective informed him it would take 3 weeks to receive results of lab tests
- Thu Nov 4; 2004 @ 11:56 By 101:John Gualtieri ---Left message for Detective Cogburn to follow-up with the Dow Agro Medical Emergency Response Center regarding this incident.
- Thu Nov 4; 2004 @ 18:58 By 102:Dean Filandrinos ---Detective Cogburn called back. He stated that the decedent entered his home by breaking in to obtain his wallet around 8pm. he left at an unknown time and went to friend's home. He took a shower upon arriving and while in the shower became lethargic. He was helped out of shower to a bed. At 7 am he could not be aroused. Paramedics were not contacted until 4:30pm and on arrival he was found deceased. Det Cogburn spoke with ME office who stated he would not have any results from tests for 8-12 weeks. Det Cogburn also stated that state Ag Dept investigated scene and found that there was no wrong doing on the part of the PCOI offered our assistance with investigation. Ok to contact Det Cogburn for further questions.
- Wed Nov 10; 2004 @ 11:52 By 101:John Gualtieri ---Received an update from Dr. Brownson who received the following communication from Detective Cogburn. The Forensic Investigator from the Medical Examiner's Office assigned to this case is Heron Ruiz. He can be reached at (561) 688-4581 FAX (561) 688-4592. My preliminary investigation indicates that this is an accidental death. The case will hinge on toxicology results from the ME's Office. It can take as long as 12 weeks to get a return on a toxicology analysis. There is information that leads me to believe this may be an accidental drug overdose based on the history and background of the deceased. Once the toxicology is back; I will then be able to close my investigation. If you need a copy of the report when it is done; you can contact the Palm Beach County Sheriff's Office Central Records Division as (561) 688-3000.
- Fri Nov 19; 2004 @ 10:57 By 101:John Gualtieri ---Left message for Mr. Ruiz to callback from the Medical Examiner's office.
- Fri Dec 10; 2004 @ 9:14 By 101:John Gualtieri ---Left message on Mr. Ruiz's voice mail.
- Wed Dec 15; 2004 @ 14:42 By 101:John Gualtieri ---Spoke to Mr. Ruiz. The case has not yet been closed. Preliminary tox results show that patient had methadone in his system. Estimated that a complete report will be available in about 2 weeks. ME case # is 04-1148
- Tue Jan 18; 2005 @ 9:48 By 101:John Gualtieri ---Received an update from Dr. Brownson of Dow AgroSciences who had received a copy of the autopsy report on 1/17/2005. The reported urine fluoride/creatinine ratio of 1.6 mg/g creatinine is below the BEI for prior to shift workers (3.0mg/g creatinine); the reported urine fluoride 2.2 mg/L is slightly above the reference range for unexposed population (0.2-1.1mg/L); but does not suggest to that the decedent had significant sulfuryl fluoride exposure (or else his ratio would have been >10mg/g creatinine [BEI for end of shift workers]). The autopsy report gave the following final diagnosis. 1. Methadone toxicity 2. Acute bronchopneumonia 3. Pulmonary edema & congestion 4. Froth within larynx; trachea; oral cavity; nares 5. Cerebral edema; brain 1480 grams. Medical Examiner's opinion: death is determined to be to acute bronchopneumonia due to methadone toxicity

15

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Demographic information: Age: 19 Years . Sex: Male Occupation (if relevant) No	Exposure route: Inhalation/nasal	Was adverse effect result of suicide/homicide or attempted suicide/homicide? No	Was protective clothing worn (specify)? Not Applicable
If female, pregnant? Did not query	Was exposure occupational? Yes If yes, days lost due to illness:	Time between exposure and onset of symptoms: Unable to determine	
Type of medical care sought: (examples include none, clinic, hospital emergency department, private physician, PCC, hospital inpatient). Health Care Facility Eval	List signs/symptoms/adverse effects Neurological-Coma		If lab tests were performed, list test names and results (If available, submit reports) Non-Reported
Exposure data: NA Amount of pesticide: NA Exposure duration: Acute <= 8 Hours Patient weight: UNK			
Human severity category: HA			
<p>This box can be used to provide any explanatory or qualifying information surrounding the incident. (add additional pages if necessary)</p> <p>Circumstances surrounding this incident remain questionable. If significant and potentially fatal exposure to Vikane occurred, there would not typically be a delayed onset of toxicological effects as appears to be described in this case, where the victim was reportedly able to ambulate to a friends home under his own power after exiting the fumigated home.</p> <p>Final autopsy report received by Dow AgroSciences on 1/17/2005 listed cause of death as attributed to methadone toxicity.</p>			
			Internal ID # 867

16